

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/991,143DATE: 07/23/98
TIME: 14:43:16

INPUT SET: S27646.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information:
4
5 (i) APPLICANT: Conti-Fine, B.M.
6
7 (ii) TITLE OF INVENTION: PREVENTION OF EXPERIMENTAL MYASTHANIA GRAVIS
8
9 (iii) NUMBER OF SEQUENCES: 2
10
11 (iv) CORRESPONDENCE ADDRESS:
12 (A) ADDRESSEE: Schwegman, Lundberg, Woessner & Kluth, P.A.
13 (B) STREET: 121 South Eighth Street, 1600 TCF Tower
14 (C) CITY: Minneapolis
15 (D) STATE: MN
16 (E) COUNTRY: USA
17 (F) ZIP: 55402
18
19 (v) COMPUTER READABLE FORM:
20 (A) MEDIUM TYPE: Diskette
21 (B) COMPUTER: IBM Compatible
22 (C) OPERATING SYSTEM: Windows 95
23 (D) SOFTWARE: FastSEQ for Windows Version 2.0b
24
25 (vi) CURRENT APPLICATION DATA:
26 (A) APPLICATION NUMBER: 08/991,143
27 (B) FILING DATE: 16-DEC-1997
28 (C) CLASSIFICATION:
29
30 (vii) PRIOR APPLICATION DATA:
31 (A) APPLICATION NUMBER:
32 (B) FILING DATE:
33
34
35
36 (viii) ATTORNEY/AGENT INFORMATION:
37 (A) NAME: Embretson, Janet E
38 (B) REGISTRATION NUMBER: 39,665
39 (C) REFERENCE/DOCKET NUMBER: 600.423US1
40
41 (ix) TELECOMMUNICATION INFORMATION:
42 (A) TELEPHONE: 612-373-6959
43 (B) TELEFAX: 612-339-3061
44 (C) TELEX:
45
46

RAW SEQUENCE LISTING
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47 (2) INFORMATION FOR SEQ ID NO:1:
48

49 (i) SEQUENCE CHARACTERISTICS:

50 (A) LENGTH: 1667 base pairs

51 (B) TYPE: nucleic acid

52 (C) STRANDEDNESS: single

53 (D) TOPOLOGY: linear

54

55 (ii) MOLECULE TYPE: cDNA

56

57 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

58
59 AAGCACAGGC CACCACTCTG CCCTGGTCCA CACAAGCTCC GGTAGCCCAT GGAGCCCTGG 60
60 CCTCTCCTCC TGCTCTTTAG CCTTTGCTCA GCTGGCCTCG TCCTGGGCTC CGAACATGAG 120
61 ACCCGTCTGG TGGCAAAGCT ATTTAAAGAC TACAGCAGCG TGGTGCGGCC AGTGGAAGAC 180
62 CACCGCCAGG TCGTGGAGGT CACCGTGGGC CTGCAGCTGA TACAGCTCAT CAATGTGGAT 240
63 GAAGTAAATC AGATCGTGAC AACCAATGTG CGTCTGAAAC AGCAATGGGT GGATTACAAC 300
64 CTAAGTAAATGGA ATCCAGATGA CTATGGCGGT GTGAAAAAAA TTCACATTCC TTCAGAAAAAG 360
65 ATCTGGCGCC CAGACCTTGT TCTCTATAAC AATGCAGATG GTGACTTTGC TATTGTCAAG 420
66 TTCACCAAAG TGCTCCTGCA GTACACTGGC CACATCACGT GGACACCTCC AGCCATCTTT 480
67 AAAAGCTACT GTGAGATCAT CGTCACCCAC TTTCCCTTTG ATGAACAGAA CTGCAGCATG 540
68 AAGCTGGGCA CCTGGACCTA CGACGGCTCT GTCTGGCCA TCAACCCGGA AAGCGACCAG 600
69 CCAGACCTGA GCAACTTCAT GGAGAGCGGG GAGTGGGTGA TCAAGGAGTC CCGGGGCTGG 660
70 AAGCACTCCG TGACCTATTC CTGCTGCCCC GACACCCCT ACCTGGACAT CACCTACCAC 720
71 TTCGTCATGC AGCGCCTGCC CCTCTACTTC ATCGTCAACG TCATCATCCC CTGCCTGCTC 780
72 TTCTCCTTCT TAACTGGCCT GGTATTCTAC CTGCCCACAG ACTCAGGGGA GAAGATGACT 840
73 CTGAGCATCT CTGTCTTACT GTCTTTGACT GTGTTCCCTC TGGTCATCGT GGAGCTGATC 900
74 CCCTCCACGT CCAGTGCTGT GCCCTTGATT GGAAAATACA TGCTGTTCAC CATGGTGTTC 960
75 GTCATTGCCT CCATCATCAT CACTGTCATC GTCATCAACA CACACCACCG CTCACCCAGC 1020
76 ACCCATGTCA TGCCCAACTG GGTGCGGAAG GTTTTTATCG ACACTATCCC AAATATCATG 1080
77 TTTTTCTCCA AATGAAAAG ACCATCCAGA GAAAAGCAAG ACAAAAAGAT TTTTACAGAA 1140
78 GACATTGATA TCTCTGACAT TTCTGGAAG CCAGGGCCTC CACCCATGGG CTTCCTACTCT 1200
79 CCCCTGATCA AACACCCCGA GGTGAAAAGT GCCATCGAGG GCATCAAGTA CATCCGAGAG 1260
80 ACCATGAAGT CAGACCAGGA GTCTAACAAT GCGGCGGCAG AGTGGAAGTA CGTTGCAATG 1320
81 GTGATGGACC ACATACTCCT CGGAGTCTTC ATGCTTGTTT GCATCATCGG AACCTAGCC 1380
82 GTGTTTGCAG GTCGACTCAT TGAATTAAAT CAGCAAGGAT GAGCAGAAAA TGAGCTGAGC 1440
83 TTAGCTCTGC CCTGGAACCT ACCAGAGCAG AGAAGGGCAG GAGAGGAAGA TTTGTCTACT 1500
84 TGCTCCACTC GCACTTATCA AACGTGTTAT ATTCCATACT TATTATTGAT GATAAGATTT 1560
85 ACCTTTATGT AAGTTTATGG CTTTGAAGTG TTTTCATATT GCTTCTCCCT TTAGTTCTGC 1620
86 TGTCTCCCTG AAGAGTGAAC CCTCTTTAGT AAATGAACT AATCACT 1667

87

88 (2) INFORMATION FOR SEQ ID NO:2:

89

90 (i) SEQUENCE CHARACTERISTICS:

91 (A) LENGTH: 457 amino acids

92 (B) TYPE: amino acid

93 (C) STRANDEDNESS: single

94 (D) TOPOLOGY: linear

95

96 (ii) MOLECULE TYPE: protein

97

98 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

99

RAW SEQUENCE LISTING PATENT APPLICATION US/08/991,143

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| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 100 | Met | Glu | Pro | Trp | Pro | Leu | Leu | Leu | Leu | Phe | Ser | Leu | Cys | Ser | Ala | Gly |
| 101 | 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| 102 | Leu | Val | Leu | Gly | Ser | Glu | His | Glu | Thr | Arg | Leu | Val | Ala | Lys | Leu | Phe |
| 103 | | | | 20 | | | | | 25 | | | | | 30 | | |
| 104 | Lys | Asp | Tyr | Ser | Ser | Val | Val | Arg | Pro | Val | Glu | Asp | His | Arg | Gln | Val |
| 105 | | | 35 | | | | | 40 | | | | | 45 | | | |
| 106 | Val | Glu | Val | Thr | Val | Gly | Leu | Gln | Leu | Ile | Gln | Leu | Ile | Asn | Val | Asp |
| 107 | | 50 | | | | | 55 | | | | | 60 | | | | |
| 108 | Glu | Val | Asn | Gln | Ile | Val | Thr | Thr | Asn | Val | Arg | Leu | Lys | Gln | Gln | Trp |
| 109 | 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| 110 | Val | Asp | Tyr | Asn | Leu | Lys | Trp | Asn | Pro | Asp | Asp | Tyr | Gly | Gly | Val | Lys |
| 111 | | | | 85 | | | | | | 90 | | | | | 95 | |
| 112 | Lys | Ile | His | Ile | Pro | Ser | Glu | Lys | Ile | Trp | Arg | Pro | Asp | Leu | Val | Leu |
| 113 | | | | 100 | | | | | 105 | | | | | 110 | | |
| 114 | Tyr | Asn | Asn | Ala | Asp | Gly | Asp | Phe | Ala | Ile | Val | Lys | Phe | Thr | Lys | Val |
| 115 | | | 115 | | | | | 120 | | | | | 125 | | | |
| 116 | Leu | Leu | Gln | Tyr | Thr | Gly | His | Ile | Thr | Trp | Thr | Pro | Pro | Ala | Ile | Phe |
| 117 | | 130 | | | | | 135 | | | | | 140 | | | | |
| 118 | Lys | Ser | Tyr | Cys | Glu | Ile | Ile | Val | Thr | His | Phe | Pro | Phe | Asp | Glu | Gln |
| 119 | 145 | | | | | 150 | | | | | 155 | | | | 160 | |
| 120 | Asn | Cys | Ser | Met | Lys | Leu | Gly | Thr | Trp | Thr | Tyr | Asp | Gly | Ser | Val | Val |
| 121 | | | | | 165 | | | | | 170 | | | | | 175 | |
| 122 | Ala | Ile | Asn | Pro | Glu | Ser | Asp | Gln | Pro | Asp | Leu | Ser | Asn | Phe | Met | Glu |
| 123 | | | | 180 | | | | | 185 | | | | | 190 | | |
| 124 | Ser | Gly | Glu | Trp | Val | Ile | Lys | Glu | Ser | Arg | Gly | Trp | Lys | His | Ser | Val |
| 125 | | | 195 | | | | | 200 | | | | | 205 | | | |
| 126 | Thr | Tyr | Ser | Cys | Cys | Pro | Asp | Thr | Pro | Tyr | Leu | Asp | Ile | Thr | Tyr | His |
| 127 | | 210 | | | | | 215 | | | | | 220 | | | | |
| 128 | Phe | Val | Met | Gln | Arg | Leu | Pro | Leu | Tyr | Phe | Ile | Val | Asn | Val | Ile | Ile |
| 129 | 225 | | | | | 230 | | | | | 235 | | | | 240 | |
| 130 | Pro | Cys | Leu | Leu | Phe | Ser | Phe | Leu | Thr | Gly | Leu | Val | Phe | Tyr | Leu | Pro |
| 131 | | | | | 245 | | | | | 250 | | | | | 255 | |
| 132 | Thr | Asp | Ser | Gly | Glu | Lys | Met | Thr | Leu | Ser | Ile | Ser | Val | Leu | Leu | Ser |
| 133 | | | | 260 | | | | | 265 | | | | | 270 | | |
| 134 | Leu | Thr | Val | Phe | Leu | Leu | Val | Ile | Val | Glu | Leu | Ile | Pro | Ser | Thr | Ser |
| 135 | | | 275 | | | | | 280 | | | | | 285 | | | |
| 136 | Ser | Ala | Val | Pro | Leu | Ile | Gly | Lys | Tyr | Met | Leu | Phe | Thr | Met | Val | Phe |
| 137 | | 290 | | | | | 295 | | | | | 300 | | | | |
| 138 | Val | Ile | Ala | Ser | Ile | Ile | Ile | Thr | Val | Ile | Val | Ile | Asn | Thr | His | His |
| 139 | 305 | | | | | 310 | | | | | 315 | | | | 320 | |
| 140 | Arg | Ser | Pro | Ser | Thr | His | Val | Met | Pro | Asn | Trp | Val | Arg | Lys | Val | Phe |
| 141 | | | | | 325 | | | | | 330 | | | | | 335 | |
| 142 | Ile | Asp | Thr | Ile | Pro | Asn | Ile | Met | Phe | Phe | Ser | Thr | Met | Lys | Arg | Pro |
| 143 | | | | 340 | | | | | 345 | | | | | 350 | | |
| 144 | Ser | Arg | Glu | Lys | Gln | Asp | Lys | Lys | Ile | Phe | Thr | Glu | Asp | Ile | Asp | Ile |
| 145 | | | 355 | | | | | 360 | | | | | 365 | | | |
| 146 | Ser | Asp | Ile | Ser | Gly | Lys | Pro | Gly | Pro | Pro | Pro | Met | Gly | Phe | His | Ser |
| 147 | | 370 | | | | | 375 | | | | | 380 | | | | |
| 148 | Pro | Leu | Ile | Lys | His | Pro | Glu | Val | Lys | Ser | Ala | Ile | Glu | Gly | Ile | Lys |
| 149 | 385 | | | | | 390 | | | | | 395 | | | | 400 | |
| 150 | Tyr | Ile | Ala | Glu | Thr | Met | Lys | Ser | Asp | Gln | Glu | Ser | Asn | Asn | Ala | Ala |
| 151 | | | | | 405 | | | | | 410 | | | | | 415 | |
| 152 | Ala | Glu | Trp | Lys | Tyr | Val | Ala | Met | Val | Met | Asp | His | Ile | Leu | Leu | Gly |

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153          420          425          430
154 Val Phe Met Leu Val Cys Ile Ile Gly Thr Leu Ala Val Phe Ala Gly
155          435          440          445
156 Arg Leu Ile Glu Leu Asn Gln Gln Gly
157          450          455

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PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/991,143

DATE: 07/23/98
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Line

Error

Original Text